





### United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER FOR PATENTS P.O. Box 1459 Alexandra, Viginia 22313-1450

### NOTICE OF ALLOWANCE AND FEE(S) DUE

34206

7590

07/08/2003

FOGG AND ASSOCIATES, LLC P.O. BOX 581339 MINNEAPOLIS, MN 55458-1339 EXAMINER

WEISS, HOWARD

ART UNIT

CLASS-SUBCLASS 257-343000

DATE MAILED: 07/08/2003

APPLICATION NO.	FILING DATE	. FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/990,330	11/21/2001	James D. Beasom	125.009US01	2642

TITLE OF INVENTION: SELF-ALIGNMENT OF SEPERATED REGIONS IN A LATERAL MOSFET STRUCTURE OF AN INTEGRATED CIRCUIT

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional NO		\$1300	\$300	\$1600	10/08/2003

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED, THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

 Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents Alexandria, Virginia 22313-1450

# (703)746-4000

maintenance fee notifications.

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address and indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up-with any corrections or use Block 1) Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. 34206 7590 07/08/2003 FOGG AND ASSOCIATES, LLC P.O. BOX 581339 Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Box Issue Fee address above, or being facsimile transmitted to the USPTO, on the date indicated below. MINNEAPOLIS, MN 55458-1339 (Depositor's name (Signature) (Date APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 09/990 330 11/21/2001 James D. Beasom 125.009US01 TITLE OF INVENTION: SELF-ALIGNMENT OF SEPERATED REGIONS IN A LATERAL MOSFET STRUCTURE OF AN INTEGRATED CIRCUIT APPLN. TYPE SMALL ENTITY ISSUE FEE PUBLICATION FEE TOTAL FEE(S) DUE DATE DUE nonprovisional NO \$1300 \$300 \$1600 10/08/2003 EXAMINER ART UNIT CLASS-SUBCLASS WEISS, HOWARD 2814 257-343000 Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. single firm (having as a member a registered attorney or agent) and the names of up to 2 ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer registered patent attorneys or agents. If no name is listed, no name will be printed. Number is required. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignce is identified below, no assignce data will appear on the patent. Inclusion of assignce data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY) Please check the appropriate assignee category or categories (will not be printed on the patent) ☐ individual ☐ corporation or other private group entity ☐ government 4a. The following fee(s) are enclosed: 4b. Payment of Fee(s) A check in the amount of the fee(s) is enclosed. ☐ Issue Fee ☐ Publication Fee Payment by credit card. Form PTO-2038 is attached. ☐ The Commissioner is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number \_\_\_\_\_\_(enclose an extra copy of this form). □ Advance Order - # of Copies Commissioner for Patents is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above. (Authorized Signature) (Date) NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office. This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Alexandria, Virginia 22313-1450.

TRANSMIT THIS FORM WITH FEE(S)

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# United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER FOR PATENTS FO. Box 1450 Alexandra, Virginia 22313-1450 www.upub.gsv

APPLICATION NO.	. 1	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/990,330		11/21/2001	James D. Beasom	125.009US01	2642	
34206 7590 07/08/2003			EXAMINI	ER		
FOGG AND ASSOCIATES, LLC				WEISS, HOWARD		
P.O. BOX 581339 MINNEAPOLIS, MN 55458-13		458-1339	•	ART UNIT	PAPER NUMBER	
				2814		
				DATE MAILED: 07/08/2003		

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The patent term adjustment to date is 0 days. If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the term adjustment will be 0 days.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

Any questions regarding the patent term extension or adjustment determination should be directed to the Office of Patent Legal Administration at (703)305-1383.



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/990,330	11/21/2001	James D. Beasom	125.009US01	2642	
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FOGG AND ASSOCIATES, LLC P.O. BOX 581339			WEISS, HOWARD		
	S, MN 55458-1339		ART UNIT	PAPER NUMBER	
UNITED STAT	ES		2814		
			DATE MAIL ED: 07/08/2003		

# Notice of Fee Increase on January 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after January 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on January 1, 2003. See Revision of Patent and Trademark Fees for Fiscal Year 2003; Final Rule, 67 Fed. Reg. 70847, 70849 (November 27, 2002).

The current fee schedule is accessible from: http://www.uspto.gov/main/howtofees.htm.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of the fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after January 1, 2003 (or mailed with a certificate of mailing on or after January 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

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<b>C</b> '	Application	on No.	Applicant(s)	•
Madian of Allawahility	09/990,33	0	BEASOM, JAMES D	<b>)</b> .
Notice of Allowability	Examiner		Art Unit	
	Howard V	Veiss	2814	
The MAILING DATE of this communication.  All claims being allowable, PROSECUTION ON THE MER herewith (or previously mailed), a Notice of Allowance (PT NOTICE OF ALLOWABILITY IS NOT A GRANT OF PAT of the Office or upon petition by the applicant. See 37 CF	RITS IS (OR REMA OL-85) or other ap <b>ENT RIGHTS.</b> Thi R 1.313 and MPEP	INS) CLOSED in this ap propriate communication s application is subject t	plication. If not include n will be mailed in due o	ed course. <b>THIS</b>
<ol> <li>This communication is responsive to <u>an amendment</u></li> <li>The allowed claim(s) iNare <u>79-110</u>.</li> <li>The drawings filed on <u>26 February 2002</u> are accepted.</li> <li>Acknowledgment is made of a claim for foreign price a) ☐ All b) ☐ Some* c) ☐ None of the:</li> </ol>	ted by the Examine ority under 35 U.S.C	C. § 119(a)-(d) or (f).		
1. Certified copies of the priority documer				
2.	ority documents ha 2(a)). riority under 35 U.S sional application h	ve been received in this  .C. § 119(e) (to a provis as been received.	national stage applicat	ion from the
Applicant has THREE MONTHS FROM THE "MAILING Dibelow. Failure to timely comply will result in ABANDONM!  7.  A SUBSTITUTE OATH OR DECLARATION must be INFORMAL PATENT APPLICATION (PTO-152) which give	ENT of this application in ENT of the ENT of	tion. THIS THREE-MO	NTH PERIOD IS NOT I	EXTENDABLE.
8. CORRECTED DRAWINGS must be submitted.  (a) including changes required by the Notice of Drawing including changes required by the Paper No  (b) including changes required by the proposed drawing including changes required by the attached Expression including changes required by the Alberta Change.	rawing correction fil raminer's Amendmo	led, which has beent / Comment or in the	peen approved by the E Office action of Paper I	No
Identifying indicia such as the application number (see 3' each sheet.	7 CFR 1.84(c)) shoul	d be written on the drawi	ngs in the front (not the	back) of
9.   DEPOSIT OF and/or INFORMATION about the attached Examiner's comment regarding REQUIREMENT				lote the
Attachment(s)				
1 ☐ Notice of References Cited (PTO-892) 3 ☐ Notice of Draftperson's Patent Drawing Review (PTO-5 ☐ Information Disclosure Statements (PTO-1449), Pape 7 ☐ Examiner's Comment Regarding Requirement for Deport Biological Material	r No	4☐ Interview Summ 6☐ Examiner's Ame	nal Patent Application (F nary (PTO-413), Paper endment/Comment erment of Reasons for A	No
U.S. Patent and Trademark Office PTO-37 (Rev. 04-03) Notice	of Allowability		Part of Paper No. 11	

Application/Control Number: 09/990,330

Art Unit: 2814

Attorney's Docket Number: 125.009US01

Filing Date: 1/21/01

Continuing Data: none

Claimed Foreign Priority Date: none

Applicant(s): Beasom

Examiner: Howard Weiss

### Reasons for Allowance

1. Claims 79 to 110 are allowed.

 The following is an examiner's statement of reasons for allowance: a lateral MOSFET as claimed including top gate and drain regions separated by a thick insulating material could not be anticipated nor, in combination, be rendered obvious over the prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### Conclusion

3. Papers related to this application may be submitted directly to Art Unit 2814 by facsimile transmission. Papers should be faxed to Art Unit 2814 via the Art Unit 2814 Fax Center located in Crystal Plaza 4, room 3C23. The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (15 November 1989). The Art Unit 2814 Fax Center number is (703) 308-7722 or -7724. The Art Unit 2814 Fax Center is to be used only for papers related to Art Unit 2814 applications. The official TC2800 Before-Final, (703) 872-9318, and After-Final, (703) 872-9319, Fax numbers will provide the fax sender with an auto-reply fax verifying receipt of their fax by the USPTO.

Art Unit: 2814

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Howard Weiss at (703) 308-4840 and between the hours of 8:00 AM to 4:00 PM (Eastern Standard Time) Monday through Friday or by e-mail via Howard.Weiss@uspto.gov.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group 2800 Receptionist at (703) 308-0956.

5. The following list is the Examiner's field of search for the present Office Action:

Field of Search	Date		
U.S. Class / Subclass(es): 257/ 343	thru 7/1/03		
Other Documentation: none			
Electronic Database(s): EAST, IEL	thru 7/1/03		

HW/hw 1 July 2003 Howard Weiss Examiner Art Unit 2814